

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/055123 A1**

(51) International Patent Classification<sup>7</sup>: **G06K 7/10**

(21) International Application Number:  
PCT/EP2004/053046

(22) International Filing Date:  
22 November 2004 (22.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0328022.9 3 December 2003 (03.12.2003) GB

(71) Applicant (for all designated States except US): **Money Controls Limited** [GB/GB]; Coin House New Coin Street Royton, Oldham Lancashire OL2 6JZ (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **RICHARDSON, Andrew** [GB/GB]; 12 Gresley Avenue Horwich, Bolton Lancashire BL6 5TQ (GB).

(74) Agents: **GEARY, Stuart, Lloyd et al.**; Venner, Shipley & Co., 20 Little Britain, London Greater London EC1A 7DH (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

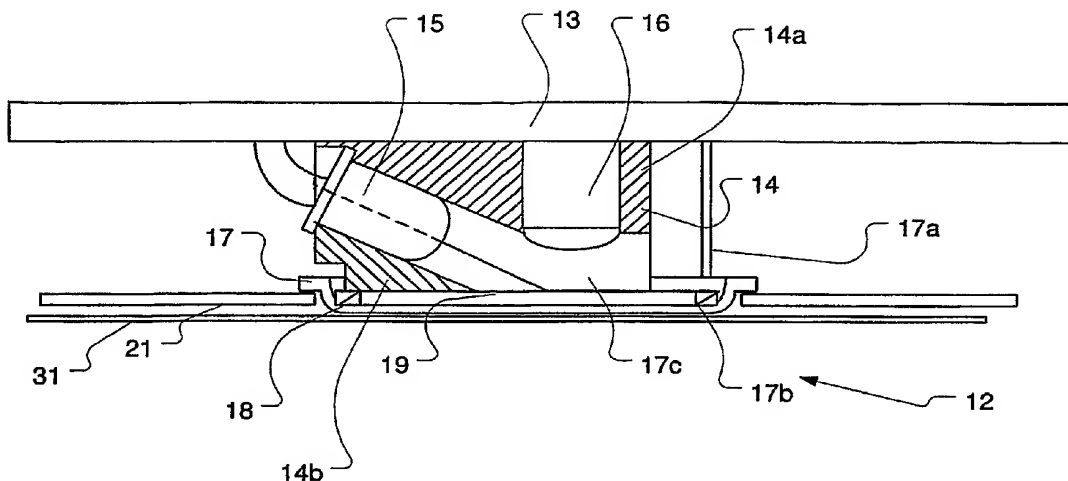
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BAR CODE SCANNER AND METHOD OF MANUFACTURING A BAR CODE SCANNER



(57) Abstract: A bar code scanner uses a narrow slit instead of focusing optics. The slit may be formed by chemically etching a thin metal plate and, in use, may be protected by a transparent cover.

WO 2005/055123 A1